

PATENT

Attorney's Docket No. ITW 8014.63

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : Geissler

Application No.: 10/629377

Filed: July 28, 2003

For: Power Converter With Low Loss Switching

Mail Stop DD
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

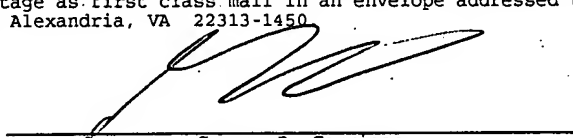
Enclosed with this Information Disclosure Statement is a FORM P.T.O. 1449 and identification of prior application(s) in which listed information was already cited and for which no copies are submitted or need be submitted.

CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8a)

I hereby certify that this correspondence is, on the date shown below, being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

Date:

11/10/03


George R. Corrigan
Reg. No. 34,803

**Identification Of Prior Application(s) In
Which Listed Information Was Already Cited
And For Which No Copies Are Submitted Or Need
Be Submitted**

U.S. Patent Application Serial No. 10/176,712, filed June 20, 2002, entitled Power Converter With Low Loss Switching, which is a continuation of, and claims the benefit of the filing date of, U.S. Patent Application Serial No. 09/778,697 filed February 7, 2001, entitled Power Converter With Low Loss Switching, which issued July 30, 2002 as Patent No. 6,426,888, which is a continuation of U.S. Patent Application Serial No. 09/495,969, filed February 2, 2000, entitled Power Converter With Low Loss Switching, which issued July 24, 2001 as Patent No. 6,266,257, which is a divisional of, and claims the benefit of the filing date of, U.S. Patent Application Serial No. 09/111,950, filed July 9, 1998, which issued September 5, 2000 as Patent No. 6,115,273.

The following references were submitted to, and/or cited by, the Office in the prior application(s) and, therefore, are not required to be provided in this application:

4,375,077	2/1983	Williams
4,635,181	1/1987	Bourgeault
4,769,754	9/1988	Reynolds et al.
4,849,873	7/1989	Vanderhelst
4,857,822	8/1989	Tabisz et al.
5,010,471	4/1991	Klaassens et al.
5,047,913	9/1991	DeDoncker et al.
5,166,549	11/1992	DeDoncker
5,270,914	12/1993	Lauw, et al.
5,307,005	4/1994	Ahladas et al.
5,313,382	5/1994	Farrington
5,319,533	6/1994	Reynolds et al.
5,321,348	6/1994	Vinciarelli et al.
5,343,016	8/1994	Davis et al.
5,343,140	8/1994	Gegner
5,363,114	6/1997	Bhagwat et al.
5,412,310	5/1995	Wolk et al.
5,414,613	5/1995	Chen
5,418,704	5/1995	Hua et al.
5,438,498	8/1995	Ingemi
5,477,131	12/1995	Gegner
5,563,777	10/1996	miki et al.
5,570,279	10/1996	Venkataramanan
5,574,636	11/1996	Lee et al.



5,594,629	1/1997	Steigerwald
5,598,326	1/1997	Liu et al.
5,601,741	2/1997	Thommes
5,615,101	3/1997	Moriarty
5,654,880	8/1997	Brkovic et al
5,673,184	9/1997	Rilly et al.
5,673,185	9/1997	Albach et al.
5,673,186	9/1997	Johnson
5,675,483	10/1997	Rademaker et al.
5,691,890	11/1997	Hyde
5,712,536	1/1998	Haas et al.
5,714,731	2/1998	Ulrich et al.
5,715,150	2/1998	Stava
5,715,155	2/1998	Shahani et al.
5,731,969	3/1998	Small
5,734,562	3/1998	Redl
5,740,022	4/1998	Abe
5,742,495	4/1998	Barone
5,748,457	5/1998	Poon et al.
5,793,190	8/1998	Sahlstom et al.
5,811,757	9/1998	Higgins
5,815,386	9/1998	Gordon
5,841,268	11/1998	Mednik
5,874,826	2/23/99	Chen et al.
6,021,053	2/2000	Baskette at al.
6,052,294	4/2000	Jacobs et al.
6,055,161	4/2000	Church et al.
6,061,253	5/2000	Igarashi et al.
6,115,273	9/2000	Geissler
6,166,933	12/2000	Bowers
6,169,671	1 /2001	Mao
6,266,257	7/2001	Geissler
6,438,004	8/2002	Tanaka et al.
3134628	3/1983	Germany
AT398862B	6/1989	Austria
0408253A2	1/1991	Europe
4029117A1	3/1991	Germany
GB 2258958A	7/1991	Great Britain
AT 402 133B	10/1992	Austria
0410088B1	12/1992	Europe
0608536A1	1/1993	Europe
DE4128175A1	2/1993	Germany
GB2258985A	2/1993	Great Britain



DE4211906C1	6/1993	Germany
06030558	2/1994	Japan-Abstract
DE19507649A1	3/1994	Germany
AT000464U1	4/1994	Austria
0608536B1	8/1994	Europe
DE 4431665A1	3/1995	Germany
DE 19612319A1	4/1995	Germany
0547417B1	6/1995	Europe
DE 19634713A1	8/1995	Germany
DE4411227A1	10/1995	Germany
WO 99/63651	5/1998	
EP(UK)0644011	8/1998	Great Britain
PCT/AT99/00242	10/1998	Austria (Patent Claims)
PCT/AT99/00263	11/1998	Austria (Patent Claims)
EPO 704957B1	1/1999	Europe
WO 00/74888A1	6/2000	
DE 29724302 U1	01/2001	Germany
WO 01/53030A1	1/2001	PCT
DE 20109760 U1	9/2001	Germany
Daihen, Inc. 350XSR, Economical Solid-State DC Constant Voltage Arc Welding Machine. Brochure		
Daihen, Inc. MIG-135 DC Constant Voltage Spool-Gun Arc Welding Machine. Brochure.		
Daihen, Inc. MINI TIG 200P High Performance DC Inerter Pulse TIG (Stick) Welder. Brochure.		
Daihen, Inc. TIGun Cold Wire TIG Spool-Gun. Brochure.		
Daihen, Inc. Air Plasma Cutting Systems. Brochure. 11/97		
Daihen, Inc., SW-101 "FILLET BUTT" Portable Submerged Gas Metal Automatic Arc Welder. Nov. 1997 Brochure		
Daihen, Inc., D Series inverters MIG - TIG - STICK. August 1997 Brochure		
Daihen, Inc. TURBO PULSE 350 DF/500DF. August 1997 Brochure		
Daihen, Inc. Semi-Automatic CO2/MAG Welding Machine Inverter. August 1997 Brochure		
EWM/HIGH-TECH PRECISION. Brochure		



Fronius PERFECT WELDING - TRANSTIG 2000/MAGIC WAVE
2000. Brochure.

OFFICIAL PROCEEDINGS OF THE FOURTEENTH INTERNATIONAL
PCI '87 CONFERENCE, September 14-17, 1987, Long Beach,
CA.

State-Plane Analysis of Parallel Resonant Converter
1985 IEEE

IECON '94 20th International Conference on Industrial
Electronics, Control and Instrumentation Volume 1 of 3
Plenary Session Power Electronics copyright 1994 by The
Institute of Electrical and Electronics Engineers, Inc.

The Analyses of ZVS Turn-off Loss and the New Snubber
Circuit for the ARCP inverter IEEE 3/94

Resonant Transition Switching Welding Power Supply,
9/11/97, Institute for Power Electronics and Electrical
drives



SIGNATURE OF ATTORNEY

Reg. No.: 34,803

Tel. No.: (920) 954-1099

5 Briarcliff Court
Appleton, WI 54915



Sheet 1 of 1.

Form PTO-1449		U.S. Department of Commerce Patent And Trademark Office		ATTY. DOCKET NO. ITW 8014.63		SERIAL NO. 10/629377	
SUPPLEMENTAL INFORMATION DISCLOSURE CITATION				APPLICANT Geissler			
				FILING DATE July 28, 2003		GROUP	
U.S. PATENT DOCUMENTS							
EXAM. INIT.	REF	PATENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
		4,375,077	2/1983	Williams			
		4,635,181	1/1987	Bourgeault			
		4,769,754	9/1988	Reynolds et al.			
		4,849,873	7/1989	Vanderhelst			
		4,857,822	8/1989	Tabisz et al.			
		5,010,471	4/1991	Klaassens et al.			
		5,047,913	9/1991	DeDoncker et al.			
		5,166,549	11/1992	DeDoncker			
FOREIGN PATENT DOCUMENTS							
EXAM INIT	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
		3134628	3/1983	Germany			
		0408253A2	1/1991	Europe			
		4029117A1	3/1991	Germany			
		0410088B1	11/1992	Europe			
OTHER DOCUMENTS (Including Author, Title, Date, Pages, Etc.)							
		Daihen, Inc. 350XSR, Economical Solid-State DC Constant Voltage Arc Welding Machine. Brochure					
		Daihen, Inc. MIG-135 DC Constant Voltage Spool-Gun Arc Welding Machine. Brochure.					
		Daihen, Inc. MINI TIG 200P High Performance DC Inerter Pulse TIG (Stick) Welder. Brochure.					
		Daihen, Inc. TIGun Cold Wire TIG Spool-Gun. Brochure.					
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8a)

I hereby certify that this correspondence is,
on the date shown below, being deposited with the U.S. Postal
Service as first class mail in an envelope addressed to:
Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450


George R. Corrigan

*DN*G:\WP51\DOCS\ITW\8014.63\1449IDS1.wpd Thursday, October 23, 2003 12:30PM



Sheet 1 of 1.

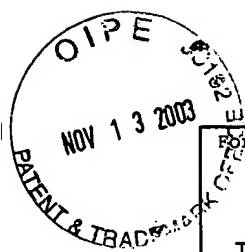
Form PTO-1449		U.S. Department of Commerce Patent And Trademark Office		ATTY. DOCKET NO. ITW 8014.63		SERIAL NO. 10/629377	
SUPPLEMENTAL INFORMATION DISCLOSURE CITATION				APPLICANT Geissler			
				FILING DATE July 28, 2003		GROUP	
U.S. PATENT DOCUMENTS							
EXAM. INIT.	REF	PATENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
		5,270,914	12/1993	Lauw, et al.			
		5,307,005	4/1994	Ahladas et al.			
		5,313,382	5/1994	Farrington			
		5,321,348	6/1994	Vinciarelli et al.			
		5,343,016	8/1994	Davis et al.			
		5,343,140	8/1994	Gegner			
		5,363,114	6/1997	Bhagwat et al.			
		5,412,310	5/1995	Wolk et al.			
FOREIGN PATENT DOCUMENTS							
EXAM INIT	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
		0608536A1	1/1993	Europe			
		DE4128175A1	2/1993	Germany			
		DE4211906C1	6/1993	Germany			
		06030558	2/1994	Japan-Abstract			
OTHER DOCUMENTS (Including Author, Title, Date, Pages, Etc.)							
		Daihen, Inc. Air Plasma Cutting Systems. Brochure. 11/97					
		Daihen, Inc., SW-101 "FILLET BUTT" Portable Submerged Gas Metal Automatic Arc Welder. Nov. 1997 Brochure					
		Daihen, Inc., D Series inverters MIG - TIG - STICK. August 1997 Brochure					
		Daihen, Inc.. TURBO PULSE 350 DF/500DF August 1997 Brochure					
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8a)

I hereby certify that this correspondence is,
on the date shown below, being deposited with the U.S. Postal
Service as first class mail in an envelope addressed to:
Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

11/10/03

George P. Corrigan



Form PTO-1449	U.S. Department of Commerce Patent And Trademark Office	ATTY. DOCKET NO. ITW 8014.63	SERIAL NO. 10/629377
SUPPLEMENTAL INFORMATION DISCLOSURE CITATION		APPLICANT Geissler	
		FILING DATE July 28, 2003	GROUP

U.S. PATENT DOCUMENTS

EXAM. INIT.	REF	PATENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
		5,414,613	5/1995	Chen			
		5,418,704	5/1995	Hua et al.			
		5,438,498	8/1995	Ingemi			
		5,477,131	12/1995	Gegner			
		5,563,777	10/1996	Miki et al.			
		5,570,279	10/1996	Venkataramanan			
		5,574,636	11/1996	Lee et al.			
		5,594,629	1/1997	Steigerwald			

FOREIGN PATENT DOCUMENTS

EXAM INIT	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
		0608536B1	8/1994	Europe				
		DE4411227A1	10/1995	Germany				
		AT398862B	6/1989	Austria				
		GB 2258958A	7/1991	Great Britain				

OTHER DOCUMENTS (Including Author, Title, Date, Pages, Etc.)

		Daihen, Inc. Semi-Automatic CO2/MAG Welding Machine Inverter. August 1997 Brochure
		EWM/HIGH-TECH PRECISION. Brochure
		Fronius PERFECT WELDING - TRANSTIG 2000/MAGIC WAVE 2000. Brochure.
		OFFICIAL PROCEEDINGS OF THE FOURTEENTH INTERNATIONAL PCI '87 CONFERENCE, September 14-17, 1987, Long Beach, CA.
		State-Plane Analysis of Parallel Resonant Converter 1985 IEEE

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8a)

I hereby certify that this correspondence is,
on the date shown below, being deposited with the U.S. Postal
Service as first class mail in an envelope addressed to:
Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

11/10/03

George R. Corrigan



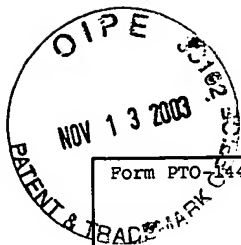
Sheet 1 of 1.

Form PTO-1449		U.S. Department of Commerce Patent And Trademark Office		ATTY. DOCKET NO. ITW 8014.63		SERIAL NO. 10/629377	
SUPPLEMENTAL INFORMATION DISCLOSURE CITATION				APPLICANT Geissler			
				FILING DATE July 28, 2003		GROUP	
U.S. PATENT DOCUMENTS							
EXAM. INIT.	REF	PATENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
		5,598,326	1/1997	Liu et al.			
		5,601,741	2/1997	Thommes			
		5,615,101	3/1997	Moriarty			
		5,654,880	8/1997	Brkovic et al.			
		5,673,184	9/1997	Rilly et al.			
		5,673,185	9/1997	Albach et al.			
		5,673,186	9/1997	Johnson			
		5,675,483	10/1997	Rademaker et al.			
FOREIGN PATENT DOCUMENTS							
EXAM INIT	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
		AT 402133B	10/1992	Austria			
		GB2258985A	2/1993	Great Britain			
		DE19507649 A1	3/1994	Germany			
		AT000464U1	4/1994	Austria			
OTHER DOCUMENTS (Including Author, Title, Date, Pages, Etc.)							
		IECON '94 20 th International Conference on Industrial Electronics, Control and Instrumentation Volume 1 of 3 Plenary Session Power Electronics copyright 1994 by The Institute of Electrical and Electronics Engineers, Inc.					
		The Analyses of ZVS Turn-off Loss and the New Snubber Circuit for the ARCP inverter IEEE 3/94					
		Resonant Transition Switching Welding Power Supply, 9/11/97, Institute for Power Electronics and Electrical drives					
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8a)
I hereby certify that this correspondence is,
on the date shown below, being deposited with the U.S. Postal
Service as first class mail in an envelope addressed to:
Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

11/10/03

George R. Corrigan



Sheet 1 of 1.

Form PTO-1449	U.S. Department of Commerce Patent And Trademark Office	ATTY. DOCKET NO. ITW 8014.63	SERIAL NO. 10/629377
SUPPLEMENTAL INFORMATION DISCLOSURE CITATION		APPLICANT Geissler	
		FILING DATE July 28, 2003	GROUP

U.S. PATENT DOCUMENTS

EXAM. INIT.	REF	PATENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
		5,691,890	11/1997	Hyde			
		5,712,536	1/1998	Haas et al.			
		5,714,731	2/1998	Ulrich et al.			
		5,715,150	2/1998	Stava			
		5,715,155	2/1998	Shahani et al.			
		5,731,969	3/1998	Small			
		5,734,562	3/1998	Redl			
		5,740,022	4/1998	Abe			

FOREIGN PATENT DOCUMENTS

EXAM INIT	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
		DE4431665A1	3/1995	Germany				
		DE19612319 A1	4/1995	Germany				
		0547417B1	6/1995	Europe				
		DE19634713 A1	8/1995	Germany				

OTHER DOCUMENTS (Including Author, Title, Date, Pages, Etc.)

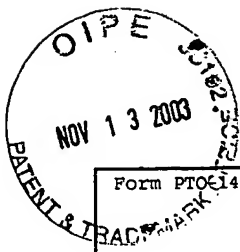
EXAMINER	DATE CONSIDERED	

EXAMINER: Initial if citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8a)

I hereby certify that this correspondence is,
on the date shown below, being deposited with the U.S. Postal
Service as first class mail in an envelope addressed to:
Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

11/10/03George R. Corrigan



Form PTOCI449		U.S. Department of Commerce Patent And Trademark Office		ATTY. DOCKET NO. ITW 8014.63		SERIAL NO. 10/629377	
SUPPLEMENTAL INFORMATION DISCLOSURE CITATION				APPLICANT Geissler			
				FILING DATE July 28, 2003		GROUP	
U.S. PATENT DOCUMENTS							
EXAM. INIT.	REF	PATENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
		5,742,495	4/1998	Barone			
		5,748,457	5/1998	Poon et al.			
		5,793,190	8/1998	Sahlstom et al.			
		5,811,757	9/1998	Higgins			
		5,815,386	9/1998	Gordon			
		5,841,268	11/1998	Mednik			
		5,874,826	2/1999	Chen et al.			
		6,021,053	2/2000	Baskette et al.			
FOREIGN PATENT DOCUMENTS							
EXAM INIT	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
		DE 4411227A1	10/1995	Germany			
		WO 99/63651	5/1998				
		EP(UK) 0644011	8/1998	Great Britain			
		PCT/AT99/00 242	10/1998	Austria (Patent Claims)			
OTHER DOCUMENTS (Including Author, Title, Date, Pages, Etc.)							
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.82)

I hereby certify that this correspondence is,
on the date shown below, being deposited with the U.S. Postal
Service as first class mail in an envelope addressed to:
Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

11/10/03George R. Corrigan



Form PTO-1449		U.S. Department of Commerce Patent And Trademark Office		ATTY. DOCKET NO. ITW 8014.63		SERIAL NO. 10/629377		
SUPPLEMENTAL INFORMATION DISCLOSURE CITATION				APPLICANT Geissler				
				FILING DATE July 28, 2003		GROUP		
U.S. PATENT DOCUMENTS								
EXAM. INIT.	REF	PATENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE	
		6,052,294	4/2000	Jacobs et al.				
		6,055,161	4/2000	Church et al.				
		6,061,253	5/2000	Igarashi et al.				
		6,115,273	9/2000	Geissler				
		6,166,933	12/2000	Bowers				
		6,169,671	1 /2001	Mao				
		6,266,257	7/2001	Geissler				
		6,438,004	8/2002	Tanaka et al.				
FOREIGN PATENT DOCUMENTS								
EXAM INIT	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
		PCT/AT99/00 263	11/1998	Austria (Patent Claims)				
		EPO 704957B1	1/1999	Europe				
		WO 00/74888A1	6/2000					
		DE29724302 U1	1/2001	Germany				
		WO 01/53030A1	1/2001	PCT				
		DE 20109760 U1	9/2001	Germany				
OTHER DOCUMENTS (Including Author, Title, Date, Pages, Etc.)								
EXAMINER				DATE CONSIDERED				
EXAMINER: Initial if citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.9a)
I hereby certify that this correspondence is,
on the date shown below, being deposited with the U.S. Postal
Service as first class mail in an envelope addressed to:
Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450
11/10/03
George R. Corrigan